

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by:

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GENERAL INFORMATION:

Name: The C. W. Zumbiel Company  
Address: 2339 Harris Avenue Norwood, OH 45212  
Date application received: August 09, 2004  
SIC/Source description: 2650/Commercial Printing  
AFS(10-digit) Plant ID: 21-015-00146  
Permit number: F-04-028

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other

MISCELLANEOUS:

☐ Acid rain source  
☐ Source subject to 112(r)  
☒ Source applied for federally enforceable emissions cap  
☐ Source provided terms for alternative operating scenarios  
☐ Source subject to a MACT standard  
☐ Source requested case-by-case 112(g) or (j) determination  
☐ Application proposes new control technology  
☒ Certified by responsible official  
☒ Diagrams or drawings included  
☐ Confidential business information (CBI) submitted in application  
☐ Pollution Prevention Measures  
☒ Area is non-attainment (list pollutants): **Ozone**

EMISSIONS SUMMARY:

<b>Pollutant</b>	<b>Allowable Emissions (tpy)</b>	<b>Potential Emissions (tpy)</b>
<b>Criteria Pollutants:</b>		
PM/PM <sub>10</sub>	0.163	0.163
SO <sub>2</sub>	0.01287	0.01287
NO <sub>x</sub>	2.1462	2.1462
CO	1.8028	1.8028
VOC*	45*	474
<b>HAPS:</b>		
Glycol Ethers**	9.0	17.16
Combined HAPS**	10.0	17.16

\*Source has accepted an allowable VOC of 45 tons/Yr.

\*\*An allowable of 9.0 tons/year for a single HAP and 10.0 tons/year of combined HAPS

TOXIC SUMMARY:

<b>TOXIC</b>	<b>PTE CONC. UG/M**3</b>	<b>PRG# UG/M**3</b>	<b>PTE CONC.&lt;PRG#</b>
<b>2-Butoxyethnol</b>	<b>0.31</b>	<b>21</b>	<b>YES</b>
<b>MIBK</b>	<b>0.01222</b>	<b>83</b>	<b>YES</b>

Note: PDR Values are not available for the above toxics so PRG values are used.

### SOURCE PROCESS DESCRIPTION:

The C. W. Zumbiel Company has applied for a permit to construct and operate a commercial printing press. Once constructed, the facility will have:

- (a) 8-color in-line flexographic printing press with 7 ink applicators and one coating applicator;
- (b) 8 natural gas-fired drying ovens at 0.618 MMBtu/hr each and;
- (c) In-line rotary die cutter.

### EMISSION AND OPERATING CAPS DESCRIPTION:

1. The source has accepted a facility-wide cap on annual VOC emissions of no more than 45 tons per rolling 12-month period. Compliance with this allowable will be demonstrated by record keeping and emissions estimating methodology specified in the terms and conditions of the permit.
2. The source has accepted a facility-wide cap on annual individual HAP emission of no more than 9 tons per rolling 12-month period. Compliance with this allowable will be demonstrated by record keeping and emissions estimating methodology specified in the terms and conditions of the permit.
3. The source has accepted a facility-wide cap on annual combined HAPS emissions of no more than 10.0 tons per rolling 12-month period. Compliance with this allowable will be demonstrated by record keeping and emissions estimating methodology specified in the terms and conditions of the permit.
4. The affected facility shall be exempt from Section 3 of 401 KAR 59:210 regulation if the VOC content of the coating is less than 0.35 kg/l of coating (two and nine-tenths (2.9) lb/gal), excluding water or exempt solvent or both, delivered to the applicators associated with the coating line.
5. The affected facility shall be exempt from Section 3 of 401 KAR 59:212 regulation if the printing systems utilize a waterborne ink whose volatile portion consists of seventy-five (75) volume percent water and twenty-five (25) volume percent organic solvent (or a lower VOC content) in all printing units.